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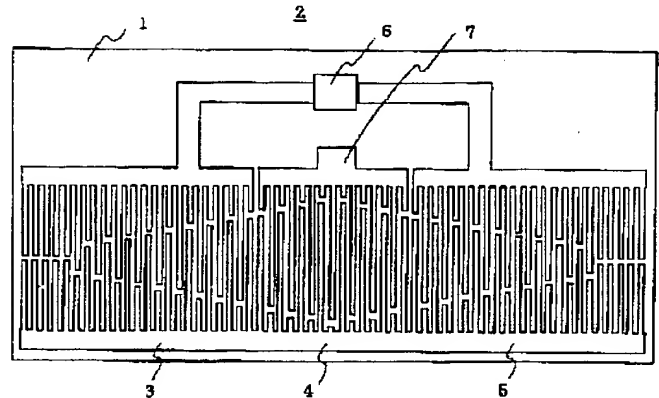
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TITLE : SURFACE WAVE RESONATOR,
SURFACE WAVE FILTER, BRANCHING
FILTER AND MOBILE RADIO
EQUIPMENT



ABSTRACT : PURPOSE: To obtain a surface wave resonator, a surface wave filter, a branching filter and a mobile radio equipment with high performance.

CONSTITUTION: A one-terminal pair surface wave resonator 2 is formed in which one comb-shaped electrode 4 is arranged in the center, plural comb-shaped electrodes 3, 5 are arranged symmetrically to both sides of the electrode 4 and connected in parallel with each other electrically and the comb-shaped electrodes 3, 5 of each set connected in parallel with the comb-shaped electrode 4 in the center are connected in series, and weighting is given so that the excitation strength of the surface wave is gradually or stepwise weakened toward the outside of the surface wave propagation line from the center of the surface wave resonator 2. Thus, the surface wave resonator 2 with a high electric impedance and large resonance sharpness is realized, and the small sized and high performance surface wave filter, branching filter and the subminiature mobile radio equipment are realized.

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